

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: May 8, 2002, 11:06:25 ; Search time 14.94 Seconds
(without alignments)
801.322 Million cell updates/sec

Title: US-09-911-513-2
Perfect score: 2758
Sequence: 1 MKRDHHHHQDKKTKMMNDE.....MLGWHTRPLIATSAWKLSTN 532

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2758	100.0	532	4	US-09-117-853-2
2	1338.5	48.5	282	4	US-09-117-853-8
3	1304.5	47.3	259	4	US-09-117-853-6
4	1108.5	40.2	221	4	US-09-117-853-4
5	713.5	25.9	166	4	US-09-117-853-10
6	109.5	4.0	664	1	US-08-421-661-6
7	104	3.8	2293	4	US-09-368-590-2
8	101.5	3.7	924	3	US-08-619-812-8
9	101.5	3.7	926	1	US-07-908-253-2
10	101.5	3.7	926	1	US-08-455-970A-2
11	101.5	3.7	926	1	US-08-387-156-6
12	101.5	3.7	926	2	US-08-694-865-6
13	101.5	3.7	926	2	US-08-878-748-6
14	101.5	3.7	926	2	US-08-535-837-2
15	101.5	3.7	926	3	US-09-124-491-6
16	101.5	3.7	926	6	5476657-3
17	101.5	3.7	936	1	US-08-455-970A-12
18	101.5	3.7	943	1	US-08-455-970A-10
19	101.5	3.7	951	1	US-08-455-970A-14
20	101.5	3.7	977	1	US-08-387-156-8
21	101.5	3.7	977	2	US-08-694-865-8
22	101.5	3.7	977	2	US-08-878-748-8
23	101.5	3.7	977	3	US-09-124-491-8
24	101.5	3.7	1069	1	US-07-777-715-9
25	101.5	3.7	1069	1	US-08-170-126-4
26	101.5	3.7	1069	3	US-08-954-418-4
27	101.5	3.7	1098	1	US-07-777-715-7

28	101.5	3.7	1098	1	US-08-170-126-2	Sequence 2, Appli
29	101.5	3.7	1098	3	US-08-954-418-2	Sequence 2, Appli
30	94.5	3.4	5087	4	US-09-144-085-1	Sequence 1, Appli
31	93.5	3.4	369	1	US-08-700-359-21	Sequence 21, Appli
32	92.5	3.4	820	2	US-08-380-182-23	Sequence 23, Appli
33	92	3.3	497	4	US-09-377-557-10	Sequence 10, Appli
34	91.5	3.3	626	4	US-09-155-770-7	Sequence 7, Appli
35	91.5	3.3	3665	2	US-08-222-617A-13	Sequence 13, Appli
36	91.5	3.3	3712	2	US-08-222-617A-25	Sequence 25, Appli
37	91	3.3	370	3	US-09-028-934-34	Sequence 34, Appli
38	91	3.3	434	1	US-08-030-096-8	Sequence 8, Appli
39	90.5	3.3	870	2	US-08-732-192A-2	Sequence 2, Appli
40	90.5	3.3	3712	2	US-08-222-617A-4	Sequence 4, Appli
41	90	3.3	673	4	US-09-078-347A-2	Sequence 2, Appli
42	90	3.3	916	1	US-08-188-228-48	Sequence 48, Appli
43	90	3.3	916	1	US-08-332-643-42	Sequence 42, Appli
44	90	3.3	916	1	US-08-332-638-48	Sequence 48, Appli
45	89.5	3.2	431	4	US-09-376-689-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1

US-09-117-853-2
; Sequence 2, Application US/09117853
; Patent No. 6307126
; GENERAL INFORMATION:
; APPLICANT: Harberd, Nicholas P
; APPLICANT: Peng, Jinrong
; APPLICANT: Carol, Pierre
; APPLICANT: Richards, Donald E
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana
; FILE REFERENCE: 620-45
; CURRENT APPLICATION NUMBER: US/09/117,853
; CURRENT FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: PCT/GB97/00390
; EARLIER FILING DATE: 1997-02-12
; EARLIER APPLICATION NUMBER: GB 9602796.6
; EARLIER FILING DATE: 1996-02-12
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 532
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-117-853-2

Query Match	100.0%;	Score	2758;	DB	4;	Length	532;
Best Local Similarity	100.0%;	Pred. No.	7.8e-257;				
Matches	532;	Conservative	0;	Mismatches	0;	Indels	0;
0;							
Qy	1	MKRDHHHHQDKKTKMMNDEDDGNGMDLAVLGKYSRSEMADVAOKLEQLEVMMSNVQ	60				
Db	1	MKRDHHHHQDKKTKMMNDEDDGNGMDLAVLGKYSRSEMADVAOKLEQLEVMMSNVQ	60				
Qy	61	EDDLSQLATETVHYNPAELTYLWDSMLTDLPSSNAYDLKALPGDAILNOFAIDSASS	120				
Db	61	EDDLSQLATETVHYNPAELTYLWDSMLTDLPSSNAYDLKALPGDAILNOFAIDSASS	120				
Qy	121	SNQGGGDTYTTNKRKCSNGVVETTATAESTRHVVLVDSQENGVRLVHALLACAEAVQ	180				
Db	121	SNQGGGDTYTTNKRKCSNGVVETTATAESTRHVVLVDSQENGVRLVHALLACAEAVQ	180				
Qy	181	KENLTVAEALVKQIGFLAVSQIGAMRKVATYFAEALARRIYRLSPSPDTHSLSDTLQW	240				
Db	181	KENLTVAEALVKQIGFLAVSQIGAMRKVATYFAEALARRIYRLSPSPDTHSLSDTLQW	240				
Qy	241	HFYETCPYLKFAHFTANQALILEAFQGGKRVHVDFSMQGLQWPAALMPGPPVF	300				
Db	241	HFYETCPYLKFAHFTANQALILEAFQGGKRVHVDFSMQGLQWPAALMPGPPVF	300				

Qy 301 RLTGIGPAPDNFDYLVHVGCKLAHLAELAHVFEYRGFVANTLADLADSMLELRPSIE 360
Db 301 RLTGIGPAPDNFDYLVHVGCKLAHLAELAHVFEYRGFVANTLADLADSMLELRPSIE 360
Qy 361 SVANVSFELHKLGRPGADIKVLGVNQIKPEIFTVVVEQESNHSPIFLDRFTESLHY 420
Db 361 SVANVSFELHKLGRPGADIKVLGVNQIKPEIFTVVVEQESNHSPIFLDRFTESLHY 420
Qy 421 STLFDLSLEGVSGQDKVMSEYVLGKQICNVVACDGPDRVERHETLSQWRNRFSGAGFAA 480
Db 421 STLFDLSLEGVSGQDKVMSEYVLGKQICNVVACDGPDRVERHETLSQWRNRFSGAGFAA 480
Qy 481 HIGSNAPQASMLIALFNGRGYRVEESDGLMLGWHTRPLIATSAMKLSN 532
Db 481 HIGSNAPQASMLIALFNGRGYRVEESDGLMLGWHTRPLIATSAMKLSN 532

RESULT 2
US-09-117-853-8
; Sequence 8, Application US/09117853
; Patent No. 6307126
; GENERAL INFORMATION:
; APPLICANT: Harberd, Nicholas P
; APPLICANT: Peng, Jinrong
; APPLICANT: Carol, Pierre
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana
; FILE REFERENCE: 620-45
; CURRENT APPLICATION NUMBER: US/09/117,853
; EARLIER FILING DATE: 1998-08-12
; EARLIER FILING DATE: 1997-02-12
; EARLIER FILING DATE: 1996-02-12
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-117-853-8

Query Match 48.5%; Score 1338.5; DB 4; Length 282;
Best Local Similarity 94.0%; Pred. No. 1.1e-120;
Matches 264; Conservative 0; Mismatches 0; Indels 17; Gaps 1;

Qy 1 MKRDHHHHQDKTMMNEEDDGNMDELLAVLGKVRSSSEMADVAOKLEQLEVMMSNVQ 60
Db 1 MKRDHHHHQDKTMMNEEDDGNM-----DVAOKLEQLEVMMSNVQ 43
Qy 61 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 120
Db 44 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 103
Qy 121 SNQGGGDTYTNKRLKCSNGVWETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 180
Db 104 SNQGGGDTYTNKRLKCSNGVWETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 163
Qy 181 KENLTVAELVKQIGFLAVSQIGAMRKVATYFAELARRIYRLSPSPIDHSLSDTLQM 240
Db 164 KENLTVAELVKQIGFLAVSQIGAMRKVATYFAELARRIYRLSPSPIDHSLSDTLQM 223
Qy 241 HFYETCPYLKFAHTANQAILEAFQGKKRVHVIDFMSQGL 281
Db 224 HFYETCPYLKFAHTANQAILEAFQGKKRVHVIDFMSQGL 264

RESULT 3
US-09-117-853-6
; Sequence 6, Application US/09117853
; Patent No. 6307126
; GENERAL INFORMATION:

; APPLICANT: Harberd, Nicholas P
; APPLICANT: Peng, Jinrong
; APPLICANT: Carol, Pierre
; APPLICANT: Richards, Donald E
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana
; FILE REFERENCE: 620-45
; CURRENT APPLICATION NUMBER: US/09/117,853
; CURRENT FILING DATE: 1998-08-12
; EARLIER FILING DATE: 1997-02-12
; EARLIER FILING DATE: 1997-02-12
; EARLIER FILING DATE: 1996-02-12
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-117-853-6

Query Match 47.3%; Score 1304.5; DB 4; Length 259;
Best Local Similarity 93.8%; Pred. No. 1.8e-117;
Matches 257; Conservative 0; Mismatches 0; Indels 17; Gaps 1;

Qy 1 MKRDHHHHQDKTMMNEEDDGNMDELLAVLGKVRSSSEMADVAOKLEQLEVMMSNVQ 60
Db 1 MKRDHHHHQDKTMMNEEDDGNM-----DVAOKLEQLEVMMSNVQ 43
Qy 61 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 120
Db 44 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 103
Qy 121 SNQGGGDTYTNKRLKCSNGVWETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 180
Db 104 SNQGGGDTYTNKRLKCSNGVWETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 163
Qy 181 KENLTVAELVKQIGFLAVSQIGAMRKVATYFAELARRIYRLSPSPIDHSLSDTLQM 240
Db 164 KENLTVAELVKQIGFLAVSQIGAMRKVATYFAELARRIYRLSPSPIDHSLSDTLQM 223
Qy 241 HFYETCPYLKFAHTANQAILEAFQGKKRVHVID 274
Db 224 HFYETCPYLKFAHTANQAILEAFQGKKRVHVID 257

RESULT 4
US-09-117-853-4
; Sequence 4, Application US/09117853
; Patent No. 6307126
; GENERAL INFORMATION:
; APPLICANT: Harberd, Nicholas P
; APPLICANT: Peng, Jinrong
; APPLICANT: Carol, Pierre
; APPLICANT: Richards, Donald E
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana
; FILE REFERENCE: 620-45
; CURRENT APPLICATION NUMBER: US/09/117,853
; CURRENT FILING DATE: 1998-08-12
; EARLIER FILING DATE: 1997-02-12
; EARLIER FILING DATE: 1997-02-12
; EARLIER FILING DATE: 1996-02-12
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-117-853-4

Query Match 40.2%; Score 1108.5; DB 4; Length 221;

Best Local Similarity 92.98; Pred. No. le-98; Matches 221; Conservative 0; Mismatches 0; Indels 17; Gaps 1;

Qy 1 MKRDHHHHQDKTMMNEEDDNGMDLAVLGKYKRSSEMADVAQKLEQLEVMMSNVQ 60
Db 1 MKRDHHHHQDKTMMNEEDDNGM-----DVAQKLEQLEVMMSNVQ 43

Qy 61 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 120
Db 44 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 103

Qy 121 SNQGGGGTYYTNRLKCSNGVWETTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 180
Db 104 SNQGGGGTYYTNRLKCSNGVWETTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 163

Qy 181 KENLTVAELVKQIGFLAVSOGIGAMRVATYFAELARRIYRLSPSPIDHLSLSDTL 238
Db 164 KENLTVAELVKQIGFLAVSOGIGAMRVATYFAELARRIYRLSPSPIDHLSLSDTL 221

RESULT 5
US-09-117-853-10
; Sequence 10, Application US/09117853
; Patent No. 6307126
; GENERAL INFORMATION:
; APPLICANT: Harberd, Nicholas P
; APPLICANT: Peng, Jinrong
; APPLICANT: Carol, Pierre
; APPLICANT: Richards, Donald E
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana
; FILE REFERENCE: 620-45
; CURRENT APPLICATION NUMBER: US/09/117,853
; EARLIER FILING DATE: 1998-08-12
; EARLIER FILING DATE: 1997-02-12
; EARLIER FILING DATE: 1997-02-12
; EARLIER FILING DATE: 1996-02-12
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-117-853-10

Query Match 25.98; Score 713.5; DB 4; Length 166;
Best Local Similarity 89.18; Pred. No. 6.7e-61; Matches 139; Conservative 0; Mismatches 0; Indels 17; Gaps 1;

Qy 1 MKRDHHHHQDKTMMNEEDDNGMDLAVLGKYKRSSEMADVAQKLEQLEVMMSNVQ 60
Db 1 MKRDHHHHQDKTMMNEEDDNGM-----DVAQKLEQLEVMMSNVQ 43

Qy 61 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 120
Db 44 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 103

Qy 121 SNQGGGGTYYTNRLKCSNGVWETTATAESTRHV 156
Db 104 SNQGGGGTYYTNRLKCSNGVWETTATAESTRHV 139

RESULT 6
US-08-421-661-6
; Sequence 6, Application US/08421661
; Patent No. 5807993
; GENERAL INFORMATION:
; APPLICANT: French, Cynthia K
; APPLICANT: Yamamoto, Karen K
; APPLICANT: Chow, Phoebe M
; APPLICANT: Alldo, Nemegias T
; TITLE OF INVENTION: Antigen Related to Inflammatory Diseases

NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: David J. Oldenkamp
STREET: 2029 Century Park East, Suite 3800
CITY: Los Angeles
STATE: California
COUNTRY: U.S.
ZIP: 90067
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/421,661
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Oldenkamp, David J
REGISTRATION NUMBER: 29,421
REFERENCE/DOCKET NUMBER: 109-067
TELEPHONE: 310-788-5000
TELEFAX: 310-277-1297
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 664 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-421-661-6

Query Match 4.08; Score 109.5; DB 1; Length 664;
Best Local Similarity 18.3%; Pred. No. 0.084; Matches 99; Conservative 81; Mismatches 185; Indels 177; Gaps 24;

Qy 6 HHHHKKTKMMNE-----EDDNGMDLAVLGKYKRSSEMADVAQKLEQLEVMMSNV 59
Db 214 HNDQERKTELPREHANSKQEDNTQSDIL-----EESDQPTQVKQWEDFDOGNQ 266

Qy 60 QEDDLSQLATE-----TVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFA 114
Db 267 EQEDNSNAEMEENASNVNKHIOETEWQSQEGKTGLEAISNHHKETEKTV-SEALLMEPT 325

Qy 115 IDSASSNQGS-----GGDTYTNKRLKCSNGVWETTATAESTR-----HVVLVD 160
Db 326 DGGNTTPRNHGVDDDDGGDGGTDPGRHSASDHYFIPSOAFLEAERASIAHUKIEE 385

Qy 161 SQENGVRVLVHALLACAEAVOKENLTVAELVKQIGFLAVSOGIGAMRVATYFAELARRI 220
Db 386 QREK-----VH-----ENENIGTE-----400

Qy 221 YRLSPSPIDHLSLSDTLQMHFYETCYLKAHFTANQALILEAFQKKRVHVVDIFSMS-- 278
Db 401 -----PGEHQEA-----KKAENSSNEETSS-EGNMRVHVAVDSMSFQ 437

Qy 279 -----QGLWPALMQALALRPGGPVPLTGTGPPAPDNPDY-----LHEVGCK 322
Db 438 CKRGHICKADQOG--KPHCVCDPVTCPPTKPLDQVCG-----TDNQTYASSCHLFATKCR 491

Qy 323 LAHLAEAIHVEFEYRGFVANTLADLDASMLELRPSETESVAVNSVFLKHLKLRPGGAIDK 382
Db 492 LEGTKKGHLQLDYFGACKSIPTCTDDEVIOF-PLMRDMLKNILMQLYE-----ANSE 544

Qy 383 VLGVVNQIKPEFTVVBQESNHNPIFLDR-----FTESLHY-----ST 422
Db 545 HAGYLN-----EKQRNVKKIYLDKRLLAGDHPIDLLLRDFKKNVHMVVPVHW 594

Qy 423 LFDLSLEGVPSGQDKVMSEVILGKQICNVV-----ACDGPDRVERHETLSQWRNR 471
Db 595 QFSELDQHP--MDRVLTHSELAPLRAVLPMHECITRFFEECD-PNK-DKHITLKEMGHC 650

Qy 472 FG 473
Db 651 FG 652

RESULT 7

US-09-368-590-2
; Sequence 2, Application US/09368590
; Patent No. 6187563
; GENERAL INFORMATION:
; APPLICANT: Solimena, Michele
; TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR
; TITLE OF INVENTION: AUTOANTIGENS OF AUTOIMMUNE DISEASES
; FILE REFERENCE: 101918-200 (OCR-941)
; CURRENT APPLICATION NUMBER: US/09/368,590
; CURRENT FILING DATE: 1999-08-04
; EARLIER APPLICATION NUMBER: 60/095,657
; EARLIER FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2293
; TYPE: PRT
; ORGANISM: Human
US-09-368-590-2

Query Match 3.8%; Score 104; DB 4; Length 2293;
Best Local Similarity 19.9%; Pred. No. 2.1;
Matches 105; Conservative 83; Mismatches 209; Indels 130; Gaps 27;

Qy 12 KKTMMNEEDGNG--MDLLAVLG--YKVRSEMDVADQKLEQVMSNVQE-----61
Db 1254 KKNGLREIQAHQPRLEEVLERAGALASLRPEAEAVRGLGELQSAWAGLREAAERQ 1313
Qy 62 ---DDLQATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSA 118
Db 1314 QVLDAAFOV--EQYFDVAEVAWL-----GEQELLMSEDKG 1349
Qy 119 S---SSNOGGGGDYTTNKRKLCNSGVVETTTATAEST-----RHVVL---VDSQENGV- 166
Db 1350 KVRPSGCGPGGAGAGGRRCLIVGAL--CPQDEQSTQLLKKHLQLEQGVENEYESIA 1407
Qy 167 ---RLVHALLACAEAVQENITVAELVKQIGFLAVSQIGAMKVA---TYFAALARRI 220
Db 1408 QLSROCRALLEMGHP--DSEQISRSQSDVRL--YVALKELGEERVALEQQYW-----L 1458
Qy 221 YRLSPSQSPIDHSLSDTLQMHFYETCPYL--KFAHTANQALFAQGGKRRVHVDFSMS 278
Db 1459 YQLSRQVSELEHWIA---EKEVYAGSPELGODFEHVSVLQ---EKFS-----EPASE 1504
Qy 279 QGLQWPAALQALRPGGPPVRLTGTPPADNFDYLHEVGCKLAHLAEIAHVEFEYRG 338
Db 1505 TGMAGRERLAUV-----NQMVDELIECG-----HTAAATMAEWK--- 1538
Qy 339 FVANTLADLADSMLELRPSETESVAVNSVPELHKLLRPGADKIDVLGVVQNIKPEITVV 398
Db 1539 ---DGLNEAWAELLELMGTTRAQLAASR--ELHKFFSDARELQOQIEKRRRLPRLTPP 1593
Qy 399 EOESNNHSPFLDRFTESL-HYYSTLFDLSLEGVPSGQKVMSEYVLGKQICNVVACDGP 457
Db 1594 EPRPSAS---MQTLRAFEHDLQLLYSQVRQLOEGAAQLRT-VYAGEHAETAS----- 1644
Qy 458 RVERHETLSQWRNFRGSAGFAAAHIGSNA-----FKQASMLLALFNG 499
Db 1645 --RQEVQLQGWKELLSACEDARLHVSTADALRHFSQVROLLSMDG 1689

RESULT 8

US-08-619-812-8
; Sequence 8, Application US/08619812
; Patent No. 6100066
; GENERAL INFORMATION:

; APPLICANT: POTTER, ANDREW A.
; APPLICANT: THEISEN, MICHAEL
; APPLICANT: HARLAND, RICHARD J.
; APPLICANT: RIOUX, CLEMENT R.
; TITLE OF INVENTION: VACCINES FOR HAEMOPHILUS SOMNUS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: REED & ROBINS
; STREET: 635 BRYANT STREET
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/619,812
; FILING DATE: 15-MAR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/038,719
; FILING DATE: 29-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: ROBINS, ROBERTA L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9000-0019.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 617-8999
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 924 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-619-812-8

Query Match 3.7%; Score 101.5; DB 3; Length 924;
Best Local Similarity 18.8%; Pred. No. 0.84;
Matches 122; Conservative 100; Mismatches 207; Indels 221; Gaps 32;

Qy 19 EEDGNGMDLLAV---LGKYRSEMDVADQK-----LBOLEVMSNVQEDD 63
Db 28 DTEQGNGLQDLVRAAEELGIEVQREERNNTATAQTSGLTQTGTLGTERGIVLSAPQIDK 87
Qy 64 LSQI-----ATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAI 115
Db 88 LLQKTRKAGQALGSAESIVQNAKAKTVLSGTSILGSLVLAGMDLD--EALQNNNS--NQHAL 144
Qy 116 DSASSSNOGGGGDYTTNKRKLCNSGVVETTT-----A 148
Db 145 AKAG-----LELTNSLIENIANSVKTLDFEFGQISQFGSKLQNIKGLGT 188
Qy 149 TAESTRHVVLVDSQENGVRVLRVHALLACAEAVQENITVAE---ALVKOIGF---LAVSQI 202
Db 189 LGDKLKNIGGLDRAGLDLVISGLSGATAA---LVLDKNASTAKKVGAGFELANQV 244
Qy 203 GAMRK-VATYFAEALARRIYRLSPSQSPIDHSLSDTLQMHFYETCPYL-----KPAHFT 255
Db 245 GNITKAVSSYI---LAQRAVAGLSSTGTPVAALITASTVSL---AISPLAFAGIADKFNHAK 298
Qy 256 ANQAILEAF-----QGKRRVHVDFSMQSLQWPAALRALRPGG----- 296
Db 299 SLESYAEERFKLGYDGNLLAEYQRTGTIDASVT-----AINTALAAAGGVSAAAG 352
Qy 297 -----PPVFRLTGIGPPAPDNFDYLHEVGCKLAHLAEIAH---VEFE-----YRGF 339
Db 353 SVTASPIALLVSGITGVISTILOYSKQ--AMFEHVANKIHKVWEKKNHGNKYNFENGY 410

Qy 340 VANTLADLASM---LELRSEIESVAVNSVFE-----LHKLGRPGAIDKVLGVVNOI 390
Db 411 DARYLANLQDNMKNFLNLN-KELQAEVIAITQQQWNNIGDLGAGISRLGKVL-----463
Qy 391 KPEITVVEQESNNHNSPIFLDRFTSLHYYS---TLFDSLEGV-----PSGQDKVMSEVYL 443
Db 464 -----SGKAYDAFAEGKHAKADKLVOLDSDANGIIDVNSGKAKTOHILFR 509
Qy 444 GKQICNVVACDGPDRVERHET-----LSQWRNRFSGA-----GF 477
Db 510 -----TPLLTPTGTEHREVRVQTKYEYITKLNINRVDSNKTIDGAASSFTDLTNVQIRGI 564
Qy 478 AAHIGS-NAPKQASMLLAL-----FNGEGY-RVEESDG 510
Db 565 ELDNAGNVTKTKETKIIAKLGEGDDNVFVSGTTEIDGEGYDRVHYSRG 614

RESULT 9
US-07-908-253-2
; Sequence 2, Application US/07908253
; Patent No. 5534256
; GENERAL INFORMATION:
; APPLICANT: POTTER, ANDREW A.
; APPLICANT: HARLAND, RICHARD J.
; TITLE OF INVENTION: HAEMOPHILUS SOMNUS OUTER MEMBRANE
; TITLE OF INVENTION: PROTEIN EXTRACT ENRICHED WITH IRON-REGULATED PROTEINS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ROBERTA L. ROBINS
; STREET: 635 BRYANT STREET
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07908,253
; FILING DATE: 19920702
; CLASSIFICATION: 420
; ATTORNEY/AGENT INFORMATION:
; NAME: ROBINS, ROBERTA L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9000-0026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 617-8999
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 926 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-908-253-2

Query Match 3.78; Score 101.5; DB 1; Length 926;
Best Local Similarity 18.88; Pred. No. 0.85; 207; Indels 221; Gaps 32;
Matches 122; Conservative 100; Mismatches 207; Indels 221; Gaps 32;

Qy 19 BEDDNGMDLAV---LGKVRSEMDVQK-----LEQVYVMSNVQEDD 63
Db 28 DTEQGNGLQDLKAAEELGIEVQREERNIATAQTSLSGTIQTGLTERGIVLSAPQDK 87
Qy 64 LSQLE-----ATETVHNPALYITWLDMLTDLNPPSSNAEYDKAIPGDAILNQFAI 115
Db 88 LLQKTKAGQALGSAESIVQNAKAKTVLSGIQSLGVLGMDLD-EALQNN--NQHAL 144
Qy 116 DSASSNNGGGDYYTNNKRLKCSNGVVETTT-----A 148

Db 145 AKAG-----LELTNSLIENIANSYKTLDEFECEQISQFSGSKLQNIKGLGT 188
Qy 149 TAESTRHHVVLDSQBNQVRLVHALLACAEVQKENTVAE---ALVKQIGF---LAVSQI 202
Db 189 LGDKLKNIGGDKAGLGDIVISGLLSGATAA---LVLDKNNASTAKKVGAGFELANQVV 244
Qy 203 GAMRK-VATYFAEALARRIYRLSPSQSPIDSHLSLDTLQMHFETCPLYL-----KFAHFT 255
Db 245 GNITKAVSSYI---LAQVAAAGLSSTGPVAAALIASTVSL---AISPLAFAGIADKFNHAK 298
Qy 256 ANQAILAEF-----QKKRVHVIDESMSQGLQWPAALMOALALRFGG-----296
Db 299 SLESYAERFKKLGXDGNLLAEYQRTGTIDASVT-----AINTALAAIAGGVSAAGA 352
Qy 297 -----PPVRLTGTIGPPAPDNFDYHLHEVGCKLAHLAEAIH---VEFE-----YRGF 339
Db 353 SVIASPIALLVSGITGVISTILOYSKQ--AMFEHVANKIHKKIVEKNNKKNYFENG 410
Qy 340 VANTLADLASM---LELRSEIESVAVNSVFE-----LHKLGRPGAIDKVLGVVNOI 390
Db 411 DARYLANLQDNMKNFLNLN-KELQAEVIAITQQQWNNIGDLGAGISRLGKVL-----463
Qy 391 KPEITVVEQESNNHNSPIFLDRFTSLHYYS---TLFDSLEGV-----PSGQDKVMSEVYL 443
Db 464 -----SGKAYDAFAEGKHAKADKLVOLDSDANGIIDVNSGKAKTOHILFR 509
Qy 444 GKQICNVVACDGPDRVERHET-----LSQWRNRFSGA-----GF 477
Db 510 -----TPLLTPTGTEHREVRVQTKYEYITKLNINRVDSNKTIDGAASSFTDLTNVQIRGI 564
Qy 478 AAHIGS-NAPKQASMLLAL-----FNGEGY-RVEESDG 510
Db 565 ELDNAGNVTKTKETKIIAKLGEGDDNVFVSGTTEIDGEGYDRVHYSRG 614

RESULT 10
US-08-455-970A-2
; Sequence 2, Application US/08455970A
; Patent No. 5708155
; GENERAL INFORMATION:
; APPLICANT: POTTER, ANDREW A.
; APPLICANT: REDMOND, MARK J.
; APPLICANT: HUGHES, HOW P.A.
; TITLE OF INVENTION: ENHANCED IMMUNOGENICITY USING LEUKOTOXIN
; TITLE OF INVENTION: CHIMERAS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: REED & ROBINS
; STREET: 285 HAMILTON AVENUE, SUITE 200
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/455,970A
; FILING DATE: 31-MAY-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/960,932
; FILING DATE: 14-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: ROBINS, ROBERTA L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9001-0016.10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-3400
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 2:

;; STATE: CALIFORNIA
;; COUNTRY: UNITED STATES OF AMERICA

Db 510 -----TPLLTPGTEHREVRQTKYEYITKLNINRVDSNKITDGAASSTFDLTNNVVORIGI 564
Qy 478 AAHHGS-NAFKQASMLLAL-----FNGGEGY-RVEESDG 510
Db 565 ELDNAGNTKTKETKIIAKLGEGDDNVFVSGSTTEIDGEGYDRVHYSRG 614

RESULT 12
US-08-694-865-6
; Sequence 6, Application US/08694865
; Patent No. 5837268
; GENERAL INFORMATION:
; APPLICANT: POTTER, ANDREW A.
; APPLICANT: MANN, JOHN G.
; TITLE OF INVENTION: GHRH-LEUKOTOXIN CHIMERAS
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: REED & ROBINS LLP
; STREET: 285 HAMILTON AVENUE, SUITE 200
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/694,865
; FILING DATE: 09-AUG-1996
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: MCCracken, THOMAS P.
; REGISTRATION NUMBER: 38,548
; REFERENCE/DOCKET NUMBER: 9001-0016.22
; TELEPHONE: (415)327-3400
; TELEFAX: (415)327-3231
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 926 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-694-865-6

Query Match 3.7%; Score 101.5; DB 2; Length 926;
Best Local Similarity 18.8%; Pred. No. 0.85;
Matches 122; Conservative 100; Mismatches 207; Indels 221; Gaps 32;

Qy 19 EEDGNGMDLAV---LGYKVRSEMDVAQK-----LEOLEVWMSNVQEDD 63
Db 28 DTEGNGLDLVKAAEEIEGVQREERNIATQTSLTQITAGLTERGIVLSAPQIDK 87
Qy 64 LSQ-----ATETHVNPALYTLWDSMLTDLNPPSSNAEYDLKAIPIGDAILNQFAI 115
Db 88 LLQKTKAGALGSAESIYQNAKAKTVLSGIQSLGVLGMDLDL-EALQNN--NQHAL 144
Qy 116 DSASSNNGGGDYTTWNRKLCNSGVVETTT-----LELTNSLIENIANSVKTLDFERGEQISQFGSKLQNIKGLGT 188
Db 145 AKAG-----LELTNSLIENIANSVKTLDFERGEQISQFGSKLQNIKGLGT 188
Qy 149 TAESTRHVVLVDSOENGVRVLYHALLACAEVQKENLTVAE---ALVKGIGF---LAVSQI 202
Db 199 LGDKLNIGGLDKAGLGLDVITSGLLSGATAA----LVLDKNASTAKKVGAGFELANQV 244
Qy 203 GAMRK-VATYFAEALARRIYRLSPQSIDHSLSDTLQMHFYETCPYL-----KFAHFT 255
Db 245 GNITKAVSSYI---LAQRVAGLSTGTPVAALIASTVSL---AISPLAFAGIADKFNHAK 298

Qy 256 ANQATLEAF-----QKKRVHVIDFSMSQGLQWPAALMALALRPGG----- 296
Db 299 SLESAERFKKLGVDGNLLAEYQRTGTIDASVT-----AINTALAAIAGGVSAAG 352
Qy 297 -----PPVRLTGTGPPADPNFDYLHEVGCKLAHLAEAIH---VEFE-----YRGF 339
Db 353 SVIASPIALLVSGITGVISTILQYSKQ--AMFEHVANKIHKNKIVEKNNHGKNYFENG 410
Qy 340 VANTLADLDASM---LELRPSEIESVAVNSVFE-----LHKLLGRPGCAIDKVLGVWNOI 390
Db 411 DARYLANLQDNMKFLLNLN-KELQAEVIAITQQOWDNNIGDLAGISRLGEKVL----- 463
Qy 391 KPEITVVVEQESNHNPIFLDRFTESLHYS---TLFDSLEGV-----PSGQDKVMSEYVL 443
Db 464 -----SGKAYVDAFEGKHKADKLVQDSANGIIDVSNRGAKTGHILFR 509
Qy 444 GKQICNVVACDGPDRVERHET-----LSQWRNREGSA-----GF 477
Db 510 -----TPLLTPGTEHREVRQTKYEYITKLNINRVDSNKITDGAASSTFDLTNNVVORIGI 564
Qy 478 AAHHGS-NAFKQASMLLAL-----FNGGEGY-RVEESDG 510
Db 565 ELDNAGNTKTKETKIIAKLGEGDDNVFVSGSTTEIDGEGYDRVHYSRG 614

RESULT 13
US-08-878-748-6
; Sequence 6, Application US/08878748
; Patent No. 5969126
; GENERAL INFORMATION:
; APPLICANT: POTTER, ANDREW A.
; APPLICANT: REDMOND, MARK J.
; APPLICANT: HUGHES, HUW P.A.
; TITLE OF INVENTION: GHRH-LEUKOTOXIN CHIMERAS
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: REED & ROBINS
; STREET: 635 BRYANT STREET
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/878,748
; FILING DATE: 19-JUN-1997
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/387,156
; FILING DATE: 10-FEB-1995
; APPLICATION NUMBER: US 07/960,932
; FILING DATE: 14-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/779,171
; FILING DATE: 16-OCT-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: ROBINS, ROBERTA L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9001-0016.21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 617-8999
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 926 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-878-748-6


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Query Match      3.7%; Score 101.5; DB 3; Length 926;
Best Local Similarity 18.8%; Pred. No. 0.85;
Matches 122; Conservative 100; Mismatches 207; Indels 221; Gaps 32;

  QY 19 EEDDGNCGDELLAV---LGYKVSRSSEMDVAAQK-----LEQLEVYMSNVQEDD 63
      : : ||| : : | : | : : | : : | : : : : | : |
  Db 28 DTEOGNGLDVLKAAEEELGEVOREERNNTAQTSLGTQTATGLTGRVLSAPOIDK 87
      : : : : : : : : : : : : : : : : : : : : : :
  QY 64 LSOL-----ATETVHYNPAELYTLWDSMLTDLNPPSSNAEYDLKAIPGDAILNFAI 115
      : : : : : : : : : : : : : : : : : : : : : :
  Db 88 LLQKTAGQALGAESIVQANAKTVLSGIQSLGVLGMDLUD--EALQNN--NOHAL 144
      : : : : : : : : : : : : : : : : : : : : : :
  QY 116 DSASSNQGGGGDTYTTNKRKLCNSGVVETTT-----A 148
      : : : : : : : : : : : : : : : : : : : : : :
  Db 145 AKAG-----LEUTNSLIENIANSVKTLDEFEQISQFGSKLQNIKGLGT 188
      : : : : : : : : : : : : : : : : : : : : : :
  QY 149 TAESTRHVVLVDSQENGVRVLVHALLACAEAVQENLVAE---ALVKQIGF---LAVSQI 202
      : : : : : : : : : : : : : : : : : : : : : :
  Db 189 LGDKLXNIGGLDKAGLGLDIVSGLLSGATAA---LVLADKNASTAKKVGAGFELANQV 244
      : : : : : : : : : : : : : : : : : : : : : :
  QY 203 GMARK--VATYFAEALABRIYRSPSQSPIDHSLSDTLQMHFYETCPYL-----KFAHFT 255
      : : | : | : | : | : | : : : : : : : : : | : |
  Db 245 GNITKAVSSYI---LAQRVAAGLSSTGTPVAALSTVSL---ATSLPFAFIAGIADKFNHAK 298
      : : : : : : : : : : : : : : : : : : : : : :
  QY 256 ANQAILEAF-----QCKKRHVHIDFMSQSGLOWPALMOALALRPGG----- 296

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